



ALPHA ACCELERATOR-410

Water reducing dynamic strength & accelerator

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DESCRIPTION:

ALPHA ACCELERATOR-410 (Dynamic Strength Accelerator) is a naphthalene base non-chloride, water-reducing admixture for concrete specifically designed to address the fast-track construction needs of the concrete industry.

ALPHA ACCELERATOR-410 is particularly effective where heat is present while curing, allowing earlier stripping of form or restoring the service-ability of concrete repairs.

This heat activated accelerator is compatible with Alpha Chemicals air-entraining, dry-cast, and water reducing admixture. **ALPHA ACCELERATOR-410** contains no added chloride and will not promote the corrosion of steel.

USES:

- Ready mix concrete
- Hot weather concreting.
- Fast Track construction.
- Particularly suitable for precast concrete and other high early strength requirements.
- To provide improved durability by increasing ultimate strength and reducing concrete permeability.

ADVANTAGES AND BENEFITS:

- Increases early strength development without sacrificing workability.
- Reduces water demand
- The increase in strength, especially evident at early ages remains at later ages, both in air cured and steam cured processes.
- Quicker form turnaround.
- Act catalytically to increase the rate of hardening of cement particles thereby leading to higher early strength.

DOSAGE:

Trail mix should be used to maximize the benefits. The normal dosage range is 0.5% to 2% 100 kg weight of cementitious material.

PROPERTIES:

Appearance	Brown Liquid
Specific Gravity	Typically 1.155 – 1.180 ± @ 20°C
Chloride content	Nil to BS 5075 & BS:EN934-2
Air entrainment	Typically less than 3% additional air is entrained at normal dosages.
Alkali content	Typically less than 5.0 g. Na ₂ O Equivalent / litre of admixture.

STANDARDS:

ASTM C494	Type A,B, D, F & G
BS 5075	Part 1
WRC	Used in portable water

PACKING:

Supplied in	CAN / DRUM / IBC
Storage	Dry, Frost free, out of direct sunlight.
Shelf life	12 months, when stored as above
Hazard class	No dangerous goods. Observe Material Safety datasheet

COMPATIBILITY:

ALPHA PALST SP-690 is compatible with all types of cement complying with international standards. It can be used in combination with the following admixtures and additives.

- ◆ Air entraining admixtures
- ◆ Anti-freezing admixtures
- ◆ Pozzolan (Micro silica, flyash, GGBFS)
- ◆ Synthetic fibers
- ◆ Alkali silica reaction control admixtures
- ◆ waterproofing admixtures